

ADDENDUM A - ENDANGERED SPECIES

I. Instructions for Applicants

A. Background

To meet its obligations under the Clean Water Act and the Endangered Species Act (ESA) and to promote those Acts' goals, the Environmental Protection Agency (EPA) is seeking to ensure the activities regulated by the Construction General Permit (CGP) are protective of endangered and threatened species and critical habitat. To ensure that those goals are met, applicants for CGP coverage are required under Part I.B.3.e. to assess the impacts of their storm water discharges and storm water discharge-related activities on Federally listed endangered and threatened species ("listed species") and designated critical habitat ("critical habitat") by following Steps One through Six listed below. EPA strongly recommends that applicants follow these steps at the earliest possible stage to ensure that measures to protect listed species and critical habitat are incorporated early in the planning process. At minimum, the procedures should be followed when developing the storm water pollution prevention plan.

Permittees and applicants also have an independent ESA obligation to ensure that their activities do not result in any prohibited "takes" of listed species.¹ Many of the measures required in the CGP and in these instructions to protect species may also assist permittees in ensuring that their construction activities do not result in a prohibited take of species in violation of § 9 of the ESA. Applicants who plan construction activities in areas that harbor endangered and threatened species are advised to ensure that they are protected from potential takings liability under ESA § 9 by obtaining either an ESA § 10 permit or by requesting formal consultation under ESA § 7 (as described in more detail in Step Seven below). Applicants who seek protection from takings liability should be aware that it is possible that some specific construction activities may be too unrelated to storm water discharges to be afforded incidental take coverage through an ESA § 7 consultation that is performed to meet the eligibility requirements for CGP coverage. In such instances, applicants should apply for an ESA § 10 permit. Where applicants are not sure whether to pursue a § 10 permit or a § 7 consultation for takings protection, they should confer with the appropriate Fish and Wildlife Service (FWS) or National Marine Fisheries Service (NMFS) office.

¹ Section 9 of the ESA prohibits any person from "taking" a listed species (e.g., harassing or harming it) unless: 1) the taking is authorized through a "incidental take statement" as part of undergoing ESA § 7 formal consultation; 2) where an incidental take permit is obtained under ESA § 10 (which requires the development of a habitat conservation plan); or 3) where otherwise authorized or exempted under the ESA. This prohibition applies to all entities including private individuals, businesses, and governments.

This permit provides for the possibility of multiple permittees at a construction site. Applicants should be aware that in many cases they can meet the permit eligibility requirements by relying on another operator's certification of eligibility under Part I.B.3.e.(2)(a), (b), or (c). This is allowed under Part I.B.3.e.(2)(d) of the permit. However, the other operator's certification must apply to the applicant's project area and must address the effects from the applicant's storm water discharges and storm water discharge-related activities on listed species and critical habitat. By certifying eligibility under Part I.B.3.e.(2)(d), the applicant agrees to comply with any measures or controls upon which the other operator's certification under Part I.B.3.e.(2)(a), (b) or (c) was based. This situation will typically occur where a developer or primary contractor, such as one for construction of a subdivision or industrial park, conducts a comprehensive assessment of effects on listed species and critical habitat for the entire construction project, certifies eligibility under Part I.B.3.e.(2)(a), (b) or (c), and that certification is relied upon by other operators (i.e., contractors) at the site. However, applicants that consider relying on another operator's certification should carefully review that certification along with any supporting information. If an applicant does not believe that the operator's certification provides adequate coverage for the applicant's storm water discharges and storm water discharge-related activities or for the applicant's particular project area, the applicant should provide its own independent certification under Part I.B.3.e.(2)(a), (b), or (c).

B. Procedures

To receive coverage under the Construction General Permit, applicants must assess the potential effects of their storm water discharges and storm water discharge-related activities on listed species and their critical habitat. To make this assessment, applicants must follow the steps outlined below prior to completing and submitting Notice of Intent (NOI) form. Applicants who are able to certify eligibility under Parts I.B.3.e.(2)(b), (c) or (d) because of a previously issued ESA § 10 permit, a previously completed ESA § 7 consultation, or because the applicant's activities were already addressed in another operator's certification of eligibility may proceed directly to Step Six.

Note - The revised NOI form which was included in the CGP (see 62 FR 29822-29823, June 2, 1997) requires that applicants provide detailed certification information on listed species. That form is still under development and is not expected to be finalized before this permit is issued. Until the revised NOI form is finalized, applicants must use the existing NOI form which does not contain the specific certification provisions relating to listed species and critical habitats at construction projects. However, use of the existing NOI form does **not** relieve applicants of their obligation to follow the procedures listed below to determine if their construction storm water discharges or storm water discharge-related activities meet permit eligibility requirements for the protection of listed species and critical habitat. By following these instructions, applicants will have sufficient information on listed species and critical habitat in order to complete either the existing or revised NOI form and sign the certification statement.

Step One: Determine if the Construction Site Is Found Within Designated Critical Habitat for Listed Species

Some, but not all, listed species have designated critical habitat. Exact locations of such habitat is provided in the Service regulations at 50 CFR Parts 17 and 226. To determine if their construction site occurs within designated critical habitat, applicants should either:

- Contact the nearest Fish and Wildlife Service (FWS) and National Marine Fisheries Service (NMFS) Office. A list of FWS and NMFS offices is found in Section II of this Addendum; or
- Contact the State or Tribal Natural Heritage Centers. These centers compile and disseminate information on Federally listed and other protected species. They frequently have the most current information on listed species and critical habitat. A list of these centers is provided in Section III of this Addendum; or
- Review those regulations (which can be found in many larger libraries).

If the construction site is not located in designated critical habitat, then the applicant does not need to consider impacts to critical habitat when following Steps Two through Six below. If the site is located within critical habitat, then the applicant must look at impacts to critical habitat when following Steps Two through Six. Note that many but not all measures imposed to protect listed species under these steps will also protect critical habitat. Thus, meeting the eligibility requirements of this permit may require measures to protect critical habitat that are separate from those to protect listed species.

Step Two: Determine if Listed Species are Located in the County(ies) Where the Construction Activity Will Occur.

Section IV of the Addendum contains a county-by-county list of listed endangered and threatened species ("listed species"), and proposed endangered and threatened species ("proposed species"). Since the list was current as of September 1, 1997, applicants must also check with other sources for updated species and county information. These sources include: Sections II and III of this Addendum; EPA's Office of Wastewater Management's web page at "<http://www.epa.gov/owm>" where updates of the county-by-county list will be posted on a periodic basis; Federal Register Notices; State wildlife protection offices; a biologist or similar professional in the environmental field; or any other method which can be reasonably expected to provide this information. Applicants with construction projects located in EPA Region 2 can call the Storm Water General Permits Hotline at (800) 245-6510 for further assistance, while applicants with projects located in EPA Regions 1, 3, 7, 8, 9 and 10 may contact the appropriate EPA Regional Office.

Where a facility is located in more than one county, the lists for all counties should be reviewed. Where a facility discharges into a water body which serves as a border between

counties or which crosses a county line which is in the immediate vicinity of the point of discharge, applicants should also review the species list for the county which lies immediately downstream or is across the water body from the point of discharge.

After a review of the available information from the sources mentioned above, if no listed species are located in a facility's county or if a facility's county is not listed, and the construction site is not located in critical habitat as described under Step One, an applicant is eligible for CGP coverage without further inquiry into the presence of, or effect to, listed species. The applicant must check the appropriate certification item on the revised NOI form (Part I.B.3.e.(2)(a)).

Once the applicant has determined which listed species are located in his or her facility's county, the applicant must follow Step Three.

Step Three: Determine if any Federally Listed Endangered and Threatened Species May Be Present in the Project Area

The project area consists of:

- The areas on the construction site where storm water discharges originate and flow toward the point of discharge into the receiving waters (including areas where excavation, site development, or other ground disturbance activities occur) and the immediate vicinity.

Example(s)

1. Where bald eagles nest in a tree that is on or bordering a construction site and could be disturbed by the construction activity.
 2. Where grading causes storm water to flow into a small wetland or other habitat that is on the site which contains listed species.
- The areas where storm water discharges flow from the construction site to the point of discharge into receiving waters.

Example(s)

1. Where storm water flows into a ditch, swale, or gully which leads to receiving waters and where listed species (such as amphibians) are found in the ditch, swale, or gully.
- The areas where storm water from construction activities discharge into receiving waters and the areas in the immediate vicinity of the point of discharge.

Example(s)

1. Where storm water from construction activities discharges into a stream segment that is known to harbor listed aquatic species.
- The areas where storm water BMPs will be constructed and operated, including any areas where storm water flows to and from BMPs.

Example(s)

1. Where a storm water retention pond would be built.

The project area will vary with the size and structure of the construction activity, the nature and quantity of the storm water discharges, the storm water discharge-related activities and the type of receiving water. Given the number of construction activities potentially covered by the CGP, no specific method to determine whether listed species may be located in the project area is required for coverage under the CGP. Instead, applicants should use the method which allows them to determine, to the best of their knowledge, whether listed species are located in their project area. These methods may include:

- Conducting visual inspections: This method may be particularly suitable for construction sites that are smaller in size or located in non-natural settings such as highly urbanized areas or industrial parks where there is little or no natural habitat, or for construction activities that discharge directly into municipal storm water collection systems.
- Contacting the nearest State or Tribal wildlife agency, the Fish and Wildlife Service (FWS), or the National Marine Fisheries Service (NMFS). Many endangered and threatened species are found in well-defined areas or habitats. Such information is frequently known to State, Tribal, or Federal wildlife agencies. A list of FWS and NMFS offices is provided in Section II of this Addendum below.
- Contacting local/regional conservation groups or the State or Tribal Natural Heritage Centers (see Section III of this Addendum). State and local conservation groups may have location specific listed species information. The Natural Heritage Centers inventory species and their locations and maintain lists of sightings and habitats.
- Submitting a data request to a Natural Heritage Center. Many of these centers will provide site specific information on the presence of listed species in a project area. Some of these centers will charge a fee for researching data requests.
- Conducting a formal biological survey. Larger construction sites with extensive storm water discharges may choose to conduct biological surveys as the most effective way to assess whether species are located in the project area and whether there are likely adverse effects. Biological surveys are frequently performed by

environmental consulting firms. A biological survey can be used to follow Steps Four through Six of these instructions.

- Conducting an environmental assessment under the National Environmental Policy Act (NEPA). Some construction activities may require environmental assessments under NEPA. Such assessments may indicate if listed species are in the project area. Coverage under the CGP does not trigger such an assessment because the permit does not regulate any dischargers subject to New Source Performance Standards under Section 306 of the Clean Water Act, and is thus statutorily exempted from NEPA. See CWA § 511(c). However, some construction activities might require review under NEPA because of Federal funding or other Federal involvement in the project.

If no species are found in the project area, an applicant is eligible for CGP coverage. Applicants must provide the necessary certification on the revised NOI form. If listed species are found in the project area, applicants must indicate the location and nature of this presence in the storm water pollution prevention plan and follow Step Four.

Step Four: Determine if Listed Species or Critical Habitat are likely to be Adversely Affected by the Construction Activity's Storm Water Discharges or Storm Water Discharge-related Activities.

To receive CGP coverage, applicants must assess whether their storm water discharges or storm water discharge-related activities are likely to adversely affect listed species or critical habitat. “Storm water discharge-related activities” include:

- activities which cause, contribute to, or result in point source storm water pollutant discharges, including but not limited to excavation, site development, grading, and other surface disturbance activities; and
- measures to control storm water discharges including the siting, construction, operation of best management practices (BMPs) to control, reduce or prevent storm water pollution.

Potential adverse effects from storm water discharges and storm water discharge-related activities include:

- Hydrological. Storm water discharges may cause siltation, sedimentation or induce other changes in receiving waters such as temperature, salinity or pH. These effects will vary with the amount of storm water discharged and the volume and condition of the receiving water. Where a storm water discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely. Construction activity itself may also alter drainage patterns on a site where construction occurs which can impact listed species or critical habitat.

- Habitat. Excavation, site development, grading, and other surface disturbance activities from construction activities, including the installation or placement of storm water BMPs, may adversely affect listed species or their habitat. Storm water may drain or inundate listed species habitat.
- Toxicity. In some cases, pollutants in storm water may have toxic effects on listed species.

The scope of effects to consider will vary with each site. If the applicant is having difficulty in determining whether his or her project is likely to adversely effect a listed specie or critical habitat, then the appropriate office of the FWS, NMFS or Natural Heritage Center listed in Sections II and III of this Addendum should be contacted for assistance. If adverse effects are not likely, then the applicant should make the appropriate certification on the revised NOI form and apply for coverage under the permit. If adverse effects are likely, applicants must follow Step Five.

Step Five: Determine if Measures Can Be Implemented To Avoid any Adverse Effects

If an applicant makes a preliminary determination that adverse effects are likely, it can still receive coverage under Part I.B.3.e.(2)(a) of the CGP if appropriate measures are undertaken to avoid or eliminate the likelihood of adverse effects prior to applying for permit coverage. These measures may involve relatively simple changes to construction activities such as re-routing a storm water discharge to bypass an area where species are located, relocating BMPs, or by changing the “footprint” of the construction activity. Applicants may wish to contact the FWS and/or NMFS to see what appropriate measures might be suitable to avoid or eliminate the likelihood of adverse impacts to listed species and/or critical habitat. (See 50 CFR 402.13(b)). This can entail the initiation of informal consultation with the FWS and/or NMFS which is described in more detail in Step Six.

If applicants adopt measures to avoid or eliminate adverse affects, they must continue to abide by those measures during the course of permit coverage. These measures must be described in the storm water pollution prevention plan and may be enforceable as permit conditions. If appropriate measures to avoid the likelihood of adverse effects are not available to the applicant, the applicant must follow Step Six.

Step Six: Determine if the Eligibility Requirements of Part I.B.3.e.(2)(b)-(d) Can Be Met.

Where adverse effects are likely, the applicant must contact the EPA and FWS/NMFS. Applicants may still be eligible for CGP coverage if any likely adverse effects can be addressed through meeting the criteria of Part I.B.3.e.(2)(b)-(d)of the permit. These criteria are as follows:

1. An ESA Section 7 Consultation is Performed for the Applicant's Activity (See Part I.B.3.e.(2)(b))

Formal or informal ESA § 7 consultation is performed with the FWS and/or NMFS which addresses the effects of the applicant's storm water discharges and storm water discharge-related activities on listed species and critical habitat. The formal consultation must result in either a "no jeopardy opinion" or a "jeopardy opinion" that identifies reasonable and prudent alternatives to avoid jeopardy which are to be implemented by the applicant. The informal consultation must result in a written concurrence by the Service(s) on a finding that the applicant's storm water discharge(s) and storm water discharge-related activities are not likely to adversely affect listed species or critical habitat (for informal consultation, see 50 CFR 402.13).

Most consultations are accomplished through informal consultation. By the terms of this permit, EPA has automatically designated applicants as non-Federal representatives for the purpose of conducting informal consultations. See Part I.B.3.e.(5) and 50 CFR 402.08 and 402.13. When conducting informal ESA § 7 consultation as a non-Federal representative, applicants must follow the procedures found in 50 CFR 402 of the ESA regulations.

Applicants must also notify EPA and the Services of their intention and agreement to conduct consultation as a non-Federal representative. Consultation may occur in the context of another Federal action at the construction site (e.g., where ESA § 7 consultation was performed for issuance of a wetlands dredge and fill permit for the project or where a NEPA review is performed for the project which incorporates a section 7 consultation). Any terms and conditions developed through consultations to protect listed species and critical habitat must be incorporated into the SWPPP. As noted above, applicants may, if they wish, initiate consultation with the Services at Step Five.

Whether ESA § 7 consultation must be performed with either the FWS, NMFS or both Services depends on the listed species which may be affected by the applicant's activity. In general, NMFS has jurisdiction over marine, estuarine, and anadromous species. Applicants should also be aware that while formal § 7 consultation provides protection from incidental takings liability, informal consultation does not.

2. An Incidental Taking Permit Under Section 10 of the ESA is Issued for the Applicants Activity (See Part I.B.3.e.(2)(c))

The applicant's construction activities are authorized through the issuance of a permit under § 10 of the ESA and that authorization addresses the effects of the applicant's storm water discharge(s) and storm water discharge-related activities on listed species and critical habitat. Applicants must follow FWS and/or NMFS procedures when applying for an ESA Section 10 permit (see 50 CFR § 17.22(b)(1) (FWS) and § 222.22 (NMFS)). Application instructions for Section 10 permits for NMFS species can be obtained by 1) accessing the "Office of Protected Resources" sector of the NMFS Home

Page at “<http://www.nmfs.gov>” or by contacting the National Marine Fisheries Service, Office of Protected Resources, Endangered Species Division, F/PR3, 1315 East-West Highway, Silver Spring, Maryland 20910; telephone (301) 713-1401, fax (301) 713-0376.

3. The Applicant Is Covered Under the Eligibility Certification of Another Operator for the Project Area (See Part I.B.3.e.(2)(d))

The applicant's storm water discharges and storm water discharge-related activities were already addressed in another operator's certification of eligibility under Part I.B.3.e.(2)(b), or (c) which also included the applicant's project area. By certifying eligibility under Part I.B.3.e.(2)(d), the applicant agrees to comply with any measures or controls upon which the other operator's certification under Part I.B.3.e.(2)(a), (b) or (c) was based. Certification under Part I.B.3.e.(2)(d) is discussed in more detail in Section I.A. of this addendum.

The applicant must comply with any terms and conditions imposed under the eligibility requirements of paragraphs I.B.3.e(2)(a), (b), (c), (d) to ensure that its storm water discharges and storm water discharge-related activities are protective of listed species and/or critical habitat. Such terms and conditions must be incorporated in the project's SWPPP. If the eligibility requirements of Part I.B.3.e.(2)(a)-(d) cannot be met, then the applicant may not receive coverage under the CGP. Applicants should then consider applying to EPA for an individual permit.

II. LIST OF FISH AND WILDLIFE SERVICE AND NATIONAL MARINE FISHERIES SERVICE OFFICES

A. U.S. FISH AND WILDLIFE SERVICE OFFICES

National Website For Endangered Species Information

Endangered Species Home page:
<http://www.fws.gov/~r9endspp/endspp.html>

Regional, State, Field and Project Offices.

Region 1

Regional Office

Division Chief, Endangered Species
U.S. Fish and Wildlife Service
ARD Ecological Services
911 NE 11 Avenue
Portland, OR 97232-4181
(503) 231-6121

U.S. Fish and Wildlife Service
Snake River Basin F&W Office
1387 South Vinnell Way, Room 368
Boise, Idaho 83709

State Supervisor
U.S. Fish and Wildlife Service
Nevada State Office
4600 Kietzke Lane, Building C, Rm. 125
Reno, NV 89502-5093

State, Field, and Project Offices

Field Supervisor
U.S. Fish and Wildlife Service
P.O. Box 50088
300 Ala Moana Blvd., Rm 3108
Honolulu, HI 96850

State Supervisor
U.S. Fish and Wildlife Service
Western Washington F&W Office
510 Desmond Dr., Suite 102
Lacey, WA 98503-1273

Field Supervisor
U.S. Fish and Wildlife Service
Upper Columbia R. Basin F&W Office
11103 East Montgomery Drive, Ste 2
Spokane, WA 99306

Field Supervisor
U.S. Fish and Wildlife Service
Klamath Falls F&W Office
6600 Washburn Way
Klamath Falls, OR 97603

State Supervisor
U.S. Fish and Wildlife Service
Oregon Fish and Wildlife Office
2600 S.E 98th Avenue Suite 100
Portland, OR 97266

Field Supervisor
U.S. Fish and Wildlife Service
Klamath River F&W Office
1215 South Main, Suite 212
Yreka, CA 96097-1006

Field Supervisor

Field Supervisor
U.S. Fish and Wildlife Service

Carlsbad Fish and Wildlife Office
2730 Loker Avenue West
Carlsbad, CA 92008

Field Supervisor
U.S. Fish and Wildlife Service
Ventura Field Office
2493 Portola Road, Suite B
Ventura, CA 93003

Project Leader
U.S. Fish and Wildlife Service
Coastal California Fish and Wildlife Office
1125 16th St., Rm. 209
Arcata, CA 95521-5582

Project Leader
U.S. Fish and Wildlife Service
Northern Central Valley F&W Office
10959 Tyler Road
Red Bluff, CA 96080

State Supervisor
U.S. Fish and Wildlife Service
California State Office
3310 El Camino Avenue, Suite 120
Sacramento, CA 95821-6340

Field Supervisor
U.S. Fish and Wildlife Service
Sacramento Fish & Wildlife Office
3310 El Camino Avenue, Suite 120
Sacramento, CA 95821-6340

Region 2
Regional Office

Division Chief, Endangered Species
U.S. Fish and Wildlife Service
ARD Ecological Services
P.O. Box 1306
Albuquerque, NM 87103

State, Field, and Project Offices

Field Supervisor
U.S. Fish and Wildlife Service
Corpus Christi Field Office
6300 Ocean Dr., Campus Box 338
Corpus Christi, TX 78412

Field Supervisor
U.S. Fish and Wildlife Service
Arlington Field Office
711 Stadium Dr., East, Suite 252
Arlington, TX 76011

Field Supervisor
U.S. Fish and Wildlife Service
Clear Lake Field Office
17629 El Camino Real, Suite 211
Houston, TX 77058

Field Supervisor
U.S. Fish and Wildlife Service
Oklahoma Field Office
222 S. Houston, Suite a
Tulsa, OK 74127

Field Supervisor
U.S. Fish and Wildlife Service
New Mexico Field Office
2105 Osuna, NE
Albuquerque, NM 87113

Field Supervisor
U.S. Fish and Wildlife Service
Austin Ecological Serv. Field Office
10711 Burnet Road, Suite 200
Austin, TX 78758

Field Supervisor
U.S. Fish and Wildlife Service
Arizona State Office
2321 W. Royal Palm Road, Suite 103
Phoenix, AZ 85021-4951

Region 3
Regional Office

Division Chief, Endangered Species
U.S. Fish and Wildlife Service
ARD Ecological Services
BHW Federal Bldg, 1 Federal Drive
Fort Snelling, MN 55111-4056

State, Field, and Project Offices

Field Supervisor
U.S. Fish and Wildlife Service
Chicago, Illinois Field Office
1000 Hart Rd., Suite 180
Barrington, IL 60010

Field Supervisor
U.S. Fish and Wildlife Service
East Lansing Field Office
2651 Coolidge Road
East Lansing, MI 48823

Field Supervisor
U.S. Fish and Wildlife Service
Reynoldsburg Field Office
6950 Americana Parkway, Suite H
Reynoldsburg, OH 43068-4132

Field Supervisor
U.S. Fish and Wildlife Service
Bloomington Field Office
620 South Walker Street
Bloomington, IN 47403-2121

Field Supervisor
U.S. Fish and Wildlife Service
Twin Cities E.S. Field Office
4101 East 80th Street
Bloomington, MN 55425-1665

Field Supervisor
U.S. Fish and Wildlife Service
Columbia Field Office
608 East Cherry Street, Room 200
Columbia, MO 65201-7712

Field Supervisor

U.S. Fish and Wildlife Service
Green Bay Field Office
1015 Challenger Court
Green Bay, WI 54311-8331

Field Supervisor
U.S. Fish and Wildlife Service
Rock Island Field Office
4469 48th Avenue Court
Rock Island, IL 61201

Field Supervisor
U.S. Fish and Wildlife Service
Marion Suboffice
Route 3, Box 328
Marion, IL 62959-4565

Region 4
Regional Office

Division Chief, Endangered Species
U.S. Fish and Wildlife Service
ARD - Ecological Services
1875 Century Blvd., Suite 200
Atlanta, GA 30345

State, Field, and Project Offices

Field Supervisor
U.S. Fish and Wildlife Service
Panama City Field Office
1612 June Avenue
Panama City, FL 32405-3721

Field Supervisor
U.S. Fish and Wildlife Service
South Florida Ecosystem Field Office
1360 U.S. Hwy 1, #5; P.O. Box 2676
Vero Beach, FL 32961-2676

Field Supervisor
U.S. Fish and Wildlife Service
Caribbean Field Office
P.O. Box 491
Boqueron, PR 00622

Field Supervisor
U.S. Fish and Wildlife Service
Puerto Rican Parrot Field Office
P.O. Box 1600
Rio Grande, PR 00745

Field Supervisor
U.S. Fish and Wildlife Service
Brunswick Field Office
4270 Norwich Street
Brunswick, GA 31520-2523

Field Supervisor
U.S. Fish and Wildlife Service
Jacksonville Field Office
6620 Southpoint Drive S., Suite 310
Jacksonville, FL 32216-0912

Field Supervisor
U.S. Fish and Wildlife Service
Charleston Field Office
217 Ft. Johnson Road, P.O. Box 12559
Charleston, SC 29422-2559

Field Supervisor
U.S. Fish and Wildlife Service
Clemson F.O., Dept. of Forest Resources
261 Lehotsky Hall, Box 341003
Clemson, SC 29634-1003

Field Supervisor
U.S. Fish and Wildlife Service
Raleigh Field Office
P.O. Box 33726
Raleigh, NC 27636-3726

Field Supervisor
U.S. Fish and Wildlife Service
Cookeville Field Office
446 Neal Street
Cookeville, TN 38501

Field Supervisor
U.S. Fish and Wildlife Service
Asheville Field Office

160 Zillicoa Street
Asheville, NC 28801

Field Supervisor
U.S. Fish and Wildlife Service
Daphne Field Office
P.O. Drawer 1190
Daphne, AL 36526

Field Supervisor
U.S. Fish and Wildlife Service
Vicksburg Field Office
2524 S. Frontage Road, Suite B
Vicksburg, MS 39180-5269

Field Supervisor, U.S. Fish and Wildlife Svc.
Lafayette Field Office
Brandywine II, Suite 102
825 Kaliste Saloom Road
Lafayette, LA 70508

Field Supervisor
U.S. Fish and Wildlife Service
Jackson Field Office
6578 Dogwood View Pkwy Suite A
Jackson, MS 39213

Region 5 **Regional Office**

Division Chief, Endangered Species
U.S. Fish and Wildlife Service
ARD Ecological Services
300 Westgate Center Drive
Hadley, MA 01035-9589

State, Field and Project Offices

Project Leader
U.S. Fish and Wildlife Service
Delaware Bay Estuary Project
2610 Whitehall Neck Road
Smyrna, DE 19977

Project Leader

U.S. Fish and Wildlife Service
Southern New England/NYBCE Program
Shoreline Plaza, Route 1A, P.O. Box 307
Charlestown, RI 02813

Project Leader
U.S. Fish and Wildlife Service
Gulf of Maine Project
4 R Fundy Road
Falmouth, ME 04105

Project Leader
U.S. Fish and Wildlife Service
Chesapeake Bay Field Office
177 Admiral Cochrane Drive
Annapolis, Maryland 21401

Project Leader
U.S. Fish and Wildlife Service
Virginia Field Office
P.O. Box 99, 6669 Short Lane
Gloucester, VA 23061

Project Leader
U.S. Fish and Wildlife Service
Southwestern Virginia Field Office
P.O. BOX 2345
Abingdon, VA 24212

Project Leader
U.S. Fish and Wildlife Service
New England Field Office
22 Bridge St., Unit #1
Concord, New Hampshire 03301-4986

Project Leader
U.S. Fish and Wildlife Service
Maine Field Office
1033 South Main St.
Old Town, Maine 04468

Project Leader
U.S. Fish and Wildlife Service
Rhode Island Field Office
Shoreline Plaza, Route 1A; P.O. Box 307

Charlestown, Rhode Island 02813

Project Leader
U.S. Fish and Wildlife Service
Vermont Field Office, 11 Lincoln Street
Winston Prouty Federal Building
Essex Junction, VT 05452

Project Leader
U.S. Fish and Wildlife Service
New Jersey Field Office
927 North Main St., Bldg. D1
Pleasantville, New Jersey 08232

Project Leader
U.S. Fish and Wildlife Service
New York Field Office
3817 Luker Road
Cortland, New York 13045

Project Leader
U.S. Fish and Wildlife Service
Long Island Field Office
P.O. Box 608
Islip, New York 11751-0608

Project Leader
U.S. Fish and Wildlife Service
Pennsylvania Field Office
315 S. Allen St., Suite 322
State College, Pennsylvania 16801

Project Leader
U.S. Fish and Wildlife Service
Eastern Pennsylvania Field Office
11 Hap Arnold Boulevard, Box H
Tobyhanna, Pennsylvania 18466-0080

Project Leader
U.S. Fish and Wildlife Service
West Virginia Field Office
Route 250, S. - Elkins Shopping Plaza
Elkins, West Virginia 26241

Region 6

Regional Office

Division Chief, Endangered Species
U.S. Fish and Wildlife Service
ARD-Ecological Services
P.O. Box 25486, DFC
Denver, CO 80225

State, Field, and Project Offices

Field Supervisor
U.S. Fish and Wildlife Service
Montana Field Office
100 N .Park, Suite 320
Helena, MT 59601

Sub-Office Supervisor
U.S. Fish and Wildlife Service
Billings Sub-Office
2900 4th Ave. North-Rm 301
Billings, MT 59101

Sub-Office Supervisor
U.S. Fish and Wildlife Service
Kalispell Sub-Office
780 Creston Hatchery Road
Kalispell, MT 59901

Grizzly Bear Recovery Coordinator
U.S. Fish and Wildlife Service
Forestry Sciences Lab
University of Montana
Missoula, MT 59812

Field Supervisor
U.S. Fish and Wildlife Service
North Dakota Field Office
1500 Capitol Avenue
Bismarck, ND 58501

Field Supervisor
U.S. Fish and Wildlife Service
Nebraska Field Office
203 W. 2nd Street; Federal Bldg., 2nd Floor
Grand Island, NE 68801

Field Supervisor
U.S. Fish and Wildlife Service
Kansas Field Office
315 Houston, Suite E
Manhattan, KS 66502

Field Supervisor
U.S. Fish and Wildlife Service
South Dakota Field Office
420 S. Garfield Ave., Suite 400
Pierre, SD 57501-5408

Field Supervisor
U.S. Fish and Wildlife Service
Salt Lake City Field Office
Lincoln Plaza, 145 East 1300 South - Suite 404
Salt Lake City, UT 84115

Field Supervisor
U.S. Fish and Wildlife Service
Colorado Field Office
730 Simms, Suite 290
Golden, CO 80401-4798

Field Supervisor
U.S. Fish and Wildlife Service
Western Colorado Field Office
764 Horizon Drive South, Annex A
Grand Junction, CO 81506-3946

Field Supervisor
U.S. Fish and Wildlife Service
Wyoming Field Office
4000 Morrie Avenue
Cheyenne, WY 82001

E.S. Coordinator
U.S. Fish and Wildlife Service
Rocky Mountain Arsenal
National Wildlife Area, Building 111
Commerce City, CO 80022-1748

Colorado River Recovery Coordinator
U.S. Fish and Wildlife Service

P.O. Box 25486, DFC
Denver, CO 80225

U.S. Fish and Wildlife Service
Laramie Black Footed Ferret Office
410 Grand Ave., Suite 315
Laramie, WY 80270

Region 7
Regional Office

Division Chief, Endangered Species
U.S. Fish and Wildlife Service
ARD Ecological Services
1011 E. Tudor Road
Anchorage, AK 99503

State, Field, and Project Offices

Field Supervisor
U.S. Fish and Wildlife Service
Ecological Services
605 West 4th Avenue, Room G-62
Anchorage, AK 99501

Field Supervisor
U.S. Fish and Wildlife Service
Ecological Services
101 12th Avenue, Box 19 (Room 232)
Fairbanks, AK 99701

Field Supervisor
U.S. Fish and Wildlife Service
Ketchikan Sub-office
103 Main Street, P.O. Box 3193
Ketchikan, AK 99901

Field Supervisor
U.S. Fish and Wildlife Service
Ecological Services
300 Vintage Blvd., Suite 201
Juneau, AK 99801

the other U.S. Fish and Wildlife Service
Regions at the time of this posting.

Region 9

Janet Ady - Outreach
U.S. Fish and Wildlife Service
National Conservation Training Center
Route 3, Box 49
Kearneysville, WV 25430

Dan Benfield - Training
U.S. Fish and Wildlife Service
National Conservation Training Center
Route 3, Box 49
Kearneysville, WV 25430

Region 8 - Has not yet been created out of

B. NATIONAL MARINE FISHERIES SERVICE OFFICES

The National Marine Fisheries Service is developing a database to provide county and territorial water (up to three miles offshore) information on the presence of endangered and threatened species and critical habitat. The database is projected to be available to the public early 1998. The database should be found at the "Office of Protected Resources" site on the NMFS Homepage at "<http://www.nmfs.gov>".

Regional and Field Offices

Northeast Region

Protected Resources Program
National Marine Fisheries Service
Northeast Region
One Blackburn Drive
Gloucester, Massachusetts 01930

Milford Field Office
National Marine Fisheries Service
212 Rogers Avenue
Milford, Connecticut 06460

Oxford Field Office
National Marine Fisheries Service
904 So. Morris Street
Oxford, Maryland 21654

Sandy Hook Field Office
James J. Howard Marine Sciences
Laboratory
National Marine Fisheries Service
74 Magruder Road
Highlands, New Jersey 07732

Protected Species Branch
National Marine Fisheries Service
Northeast Fisheries Science Center
166 Water Street
Woods Hole, Massachusetts 02543

Southeast Region

Protective Species Management Branch
National Marine Fisheries Service
Southeast Region
9721 Executive Center Drive
St. Petersburg, Florida 33702-2432

Northwest Region

Protected Species Division
National Marine Fisheries Service
Northwest Region
525 NE Oregon
Suite 500
Portland, Oregon 97232-2737

Boise Field Office
National Marine Fisheries Service
1387 S. Vinnel Way
Suite 377
Boise, Idaho 83709

Olympia Field Office
National Marine Fisheries Service
510 Desmond Drive, SE
Suite 103
Lacey, Washington 98503

Roseburg Field Office
National Marine Fisheries Service
2900 Stewart Parkway NW
Roseburg, Oregon 97470

Rufus Field Office

National Marine Fisheries Service
P.O. Box 67
704 "E" 1st
Rufus, Oregon 97050

222 West 7th Avenue, Box 10
Anchorage, Alaska 99513-7577

Southwest Region

Protected Species Management Division
Southwest Region
National Marine Fisheries Service
501 West Ocean Blvd., Suite 4200
Long Beach, California 90802-4213

Arcata Field Office
National Marine Fisheries Service
1125 16th Street, Room 209
Arcata, California 95521

Eureka Field Office
National Marine Fisheries Service
1330 Bayshore Way
Eureka, California 95501

Pacific Islands Area Field Office
National Marine Fisheries Service
2570 Dole Street, Room 106
Honolulu, Hawaii 96822-2396

Santa Rosa Field Office
Protected Resources Program
National Marine Fisheries Service
777 Sonoma Avenue, Room 325
Santa Rosa, California 95404

Alaska Region

Protected Resources Management Division
Alaska Region
National Marine Fisheries Service
709 West 9th Street
Federal Building 461
P.O. Box 21767
Juneau, Alaska 99802

Anchorage Office

III. NATURAL HERITAGE CENTERS

The Natural Heritage Network comprises 85 biodiversity data centers throughout the Western Hemisphere. These centers collect, organize, and share data relating to endangered and threatened species and habitat. The network was developed to inform land-use decisions for developers, corporations, conservationists, and government agencies and is also consulted for research and educational purposes. The centers maintain a **Natural Heritage Network Control Server Website** (<http://www.heritage.tnc.org>) which provides website and other access to a large number of specific biodiversity centers. Some of these centers are listed below:

Alabama Natural Heritage Program

Huntingdon College
Massey Hall
1500 East Fairview Avenue
Montgomery, AL 36106-2148
(334) 834-4519 Fax: (334) 834-5439
Internet: alnhp@wsnet.com

Alaska Natural Heritage Program

University of Alaska Anchorage
707 A Street
Anchorage, AK 99501
907/257-2702 Fax: 907/258-9139
Program Director: David Duffy, 257-2707
Internet: afdcd1@orion.alaska.edu

Arizona Heritage Data Management System

Arizona Game & Fish Department
WM-H
2221 W. Greenway Road
Phoenix, AZ 85023
602/789-3612 Fax: 602/789-3928
Internet: hdms@gf.state.az.us
Internet: hdms1@gf.state.az.us

Arkansas Natural Heritage Commission

Suite 1500, Tower Building
323 Center Street
Little Rock, AR 72201
501/324-9150 Fax: 501/324-9618
Director: Harold K. Grimmett, -9614

California Natural Heritage Division

Department of Fish & Game
1220 S Street
Sacramento, CA 95814
916/322-2493 Fax: 916/324-0475

Colorado Natural Heritage Program

Colorado State University
254 General Services Building
Fort Collins, CO 80523
970/491-1309 Fax: 970/491-3349

Connecticut Natural Diversity Database

Natural Resources Center
Department of Environmental Protection
79 Elm Street, Store Level
Hartford, CT 06106-5127
860/424-3540 Fax: 860/424-4058

Delaware Natural Heritage Program

Division of Fish & Wildlife
Department of Natural Resources &
Environmental Control
4876 Hay Point Landing Road
Smyrna, DE 19977
302/653-2880 Fax: 302/653-3431

District of Columbia Natural Heritage Program

13025 Riley's Lock Road
Poolesville, MD 20837
301/427-1302 Fax: 301/427-1355

Florida Natural Areas Inventory

1018 Thomasville Road

Suite 200-C
Tallahassee, FL 32303
904/224-8207 Fax: 904/681-9364

Florida Natural Areas Inventory

Eglin Air Force Base
P.O. Box 1150
Niceville, FL 32588
904/883-6451 Fax: 904/682-8381

Georgia Natural Heritage Program

Wildlife Resources Division
Georgia Department of Natural Resources
2117 U.S. Highway 278 S.E.
Social Circle, GA 30279
706/557-3032 or 770/918-6411
Fax: 706/557-3033 or 706/557-3040
Internet:
natural_heritage@mail.dnr.state.ga.us

Hawaii Natural Heritage Program

The Nature Conservancy of Hawaii
1116 Smith Street, Suite 201
Honolulu, HI 96817
808/537-4508 Fax: 808/545-2019

Idaho Conservation Data Center

Department of Fish & Game
600 South Walnut Street, Box 25
Boise, ID 83707-0025
208/334-3402 Fax: 208/334-2114

Illinois Natural Heritage Division

Department of Natural Resources
Division of Natural Heritage
524 South Second Street
Springfield, IL 62701-1787
217/785-8774 Fax: 217/785-8277

Illinois Nature Preserves Commission

Director: Carolyn Grosboll
Deputy Dir/Steward: Randy Heidorn
Deputy Dir/Protect: Don McFall
Office Specialist: Karen Tish
217/785-8774 Fax: 217/785-8277

Indiana Natural Heritage Data Center

Division of Nature Preserves
Department of Natural Resources
402 West Washington Street, Room W267
Indianapolis, IN 46204
317/232-4052 Fax: 317/233-0133

Iowa Natural Areas Inventory

Department of Natural Resources
Wallace State Office Building
Des Moines, IA 50319-0034
Fax: 515/281-6794
Coordinator/Zoologist: Daryl Howell,
515/281-8524

Kansas Natural Heritage Inventory

Kansas Biological Survey
2041 Constant Avenue
Lawrence, KS 66047-2906
913/864-3453 Fax: 913/864-5093

Kentucky Natural Heritage Program

Kentucky State Nature Preserves
Commission
801 Schenkel Lane
Frankfort, KY 40601
502/573-2886 Fax: 502/573-2355

Louisiana Natural Heritage Program

Department of Wildlife & Fisheries
P.O. Box 98000
Baton Rouge, LA 70898-9000
504/765-2821 Fax: 504/765-2607

Maine Natural Areas Program

Department of Conservation
(FedEx/UPS: 159 Hospital Street)
93 State House Station
Augusta, ME 04333-0093
207/287-8044 Fax: 207/287-8040
Internet: mnapp@state.me.us
Web site:
<http://www.state.me.us/doc/mnapp/home.htm>

Maryland Heritage & Biodiversity

Conservation Programs

Department of Natural Resources
Tawes State Office Building, E-1
Annapolis, MD 21401
410/260-8540 Fax: 410/260-8595
Web site:
<http://www.heritage.tnc.org/nhp/us/md/>

**Massachusetts Natural Heritage
& Endangered Species Program**

Division of Fisheries & Wildlife
Route 135
Westborough, MA 01581
508/792-7270 ext. 200 Fax: 508/792-7275

Michigan Natural Features Inventory

Mason Building, 5th floor
(FedEx/UPS: 530 W Allegan, 48933)
Box 30444
Lansing, MI 48909-7944
517/373-1552 Fax: 517/373-6705
Director: Leni Wilsmann, 373-7565
Internet: wilsmanl@wildlife.dnr.state.mi.us

**Minnesota Natural Heritage & Nongame
Research**

Department of Natural Resources
500 Lafayette Road, Box 7
St. Paul, MN 55155
612/297-4964 Fax: 612/297-4961

Mississippi Natural Heritage Program

Museum of Natural Science
111 North Jefferson Street
Jackson, MS 39201-2897
601/354-7303 Fax: 601/354-7227

Missouri Natural Heritage Database

Missouri Department of Conservation
P.O. Box 180
(FedEx: 2901 West Truman Blvd)
Jefferson City, MO 65102-0180
573/751-4115 Fax: 573/526-5582

Montana Natural Heritage Program

State Library Building
1515 E. 6th Avenue
Helena, MT 59620
406/444-3009 Fax: 406/444-0581
Internet: mtnhp@nris.msl.mt.gov
Homepage/World Wide Web:
<http://nris.msl.mt.gov/mtnhp/nhp-dir.html>

Navajo Natural Heritage Program

P.O. Box 1480
Window Rock, Navajo Nation, AZ 86515
(520) 871-7603
(520) 871-7069 (FAX)

Nebraska Natural Heritage Program

Game and Parks Commission
2200 North 33rd Street
P.O. Box 30370
Lincoln, NE 68503
402/471-5421 Fax: 402/471-5528

Nevada Natural Heritage Program

Department of Conservation & Natural
Resources
1550 E. College Parkway, Suite 145
Carson City, NV 89706-7921
702/687-4245 Fax: 702/885-0868

**New Hampshire Natural Heritage
Inventory**

Department of Resources & Economic
Development
172 Pembroke Street
P.O. Box 1856
Concord, NH 03302
603/271-3623 Fax: 603/271-2629

New York Natural Heritage Program

Department of Environmental Conservation
700 Troy-Schenectady Road
Latham, NY 12110-2400
518/783-3932 Fax: 518/783-3916
Computer: 518/783-3946

North Carolina Heritage Program

NC Department of Environment, Health &
Natural Resources
Division of Parks & Recreation
P.O. Box 27687
Raleigh, NC 27611-7687
919-733-4181 Fax: 919/715-3085

North Dakota Natural Heritage Inventory

North Dakota Parks & Recreation
Department
1835 Bismarck Expressway
Bismarck, ND 58504
701/328-5357 Fax: 701/328-5363

Ohio Natural Heritage Data Base

Division of Natural Areas & Preserves
Department of Natural Resources
1889 Fountain Square, Building F-1
Columbus, OH 43224
614/265-6453 Fax: 614/267-3096

Oklahoma Natural Heritage Inventory

Oklahoma Biological Survey
111 East Chesapeake Street
University of Oklahoma
Norman, OK 73019-0575
405/325-1985 Fax: 405/325-7702
Web site:
<http://obssun02.uoknor.edu/biosurvey/onhi/home.html>

Oregon Natural Heritage Program

Oregon Field Office
821 SE 14th Avenue
Portland, OR 97214
503/731-3070; 230-1221 Fax: 503/230-9639

**Pennsylvania Natural Diversity Inventory
(East, West, Central)**

*** Pennsylvania Natural Diversity
Inventory - East**

The Nature Conservancy
34 Airport Drive
Middletown, PA 17057
717/948-3962 Fax: 717/948-3957

*** Pennsylvania Natural Diversity
Inventory - West**

Western Pennsylvania Conservancy
Natural Areas Program
316 Fourth Avenue
Pittsburgh, PA 15222
412/288-2777 Fax: 412/281-1792

*** Pennsylvania Natural Diversity
Inventory -Central**

Bureau of Forestry
P.O. Box 8552
Harrisburg, PA 17105-8552
717/783-0388 Fax: 717/783-5109

Puerto Rico Natural Heritage Program

Division de Patrimonio Natural
Area de Planificacion Integral
Departamento de Recursos Naturales y
Ambientales de Puerto Rico
P.O. Box 5887
Puerta de Tierra, Puerto Rico 00906
Tel: 787-722-1726
Fax: 787-725-9526

Rhode Island Natural Heritage Program

Department of Environmental Management
Division of Planning & Development
83 Park Street
Providence, RI 02903
401/277-2776, x4308 Fax: 401/277-2069

South Carolina Heritage Trust

SC Department of Natural Resources
P.O. Box 167
Columbia, SC 29202
803/734-3893 Fax: 803/734-6310 (Call first)

South Dakota Natural Heritage Data Base

SD Department of Game, Fish & Parks
Wildlife Division
523 E. Capitol Avenue
Pierre, SD 57501-3182
605/773-4227 Fax: 605/773-6245

Tennessee Division of Natural Heritage
Department of Environment & Conservation
401 Church Street
Life and Casualty Tower, 8th Floor
Nashville, TN 37243-0447
615/532-0431 Fax: 615/532-0614

Texas Biological and Conservation Data System

3000 South IH-35 , Suite 100
Austin, TX 78704
512/912-7011 Fax: 512/912-7058

U.S. Virgin Islands Conservation Data Center

Eastern Caribbean Center
University of the Virgin Islands
No. 2 John Brewers Bay
St. Thomas, VI 00802
(809) 693-1030 [Voice] (809) 693-1025
[Fax]
Home Page: cdc.uvi.edu
E-Mail: dbarry@uvi.edu

Utah Natural Heritage Program

Division of Wildlife Resources
1596 West North Temple
Salt Lake City, UT 84116
801/538-4761 Fax: 801/538-4709

Vermont Nongame & Natural Heritage Program

Vermont Fish & Wildlife Department
103 S. Main Street, 10 South
Waterbury, VT 05671-0501
802/241-3700 Fax: 802/241-3295

Virginia Division of Natural Heritage

Department of Conservation & Recreation
Main Street Station
1500 E. Main Street, Suite 312
Richmond, VA 23219
804/786-7951 Fax: 804/371-2674

Washington Natural Heritage Program

Department of Natural Resources
(FedEx: 1111 Washington Street, SE)
P.O. Box 47016
Olympia, WA 98504-7016
360/902-1340 Fax: 360/902-1783

West Virginia Natural Heritage Program

Department of Natural Resources Operations
Center
Ward Road, P.O. Box 67
Elkins, WV 26241
304/637-0245 Fax: 304/637-0250

Wisconsin Natural Heritage Program

Endangered Resources
Department of Natural Resources
101 S. Webster Street, Box 7921
Madison, WI 53707
608/266-7012 Fax: 608/266-2925

Wyoming Natural Diversity Database

1604 Grand Avenue, Suite 2
Laramie, WY 82070
307/745-5026 Fax: 307/745-5026 (Call first)
Internet: "wyndd@lariat.org"